

Claims

1. Screw cap for containers with a threaded neck, in particular PET bottles, which are designed to hold drinks containing CO₂, with a head plate (1), a roughly cylindrical cap shell (2) with internal thread (3), an essentially cylindrical inner sealing web (4) extending from the head plate (1) with a continuous annular region projecting radially outwards and an outer, essentially cylindrical sealing web (5) concentrically surrounding the inner sealing web (4), the maximum external radius of the inner sealing web and the minimum internal radius of the outer sealing web differing only slightly and preferably by less than 2 mm and in particular by less than 1 mm, the inner and outer sealing webs (4, 5) being specifically designed to accommodate the upper region of a bottle neck (11) in the annular intermediate space formed between them, **characterized in that** apparatuses (6, 7) are provided which limit the axial depth by which the bottle neck rim (11) penetrates the intermediate space between the inner (4) and outer sealing web (5).
2. Screw cap according to claim 1, characterized in that the apparatuses are elevations or webs (6) extending axially into the intermediate space (9) from the base of the intermediate space (9).
3. Screw cap according to claim 2, characterized in that the webs have an axial height of between 0.3 and 2 mm, preferably from 0.5 to 1.2 mm.
4. Screw cap according to one of claims 2 or 3, characterized in that the webs have a width (measured in peripheral direction) of 0.5 to 3 mm.
5. Screw cap according to one of claims 2 to 4, characterized in that the webs (6) are distributed at roughly equal angular distances along the annular intermediate space (9).
6. Screw cap according to one of claims 2 to 5, characterized in that six webs are provided at angular distances of approximately 60°.
7. Screw cap according to one of claims 1 to 6, characterized in that a continuous annular bead (7) is provided radially outside the outer sealing web (5), which is developed as a stop for the upper thread edge of a bottle neck rim, the stop surface of the bead (7) having an axial distance from the base of the intermediate space (9) which is 0.3 to 2 mm, preferably 0.5 to 1.2 mm, bigger than the axial distance of the upper thread edge from the upper rim surface of the threaded neck of a bottle for which the screw cap is provided.

8. Screw cap according to one of claims 1 to 7, characterized in that the wall thickness of the head plate is smaller in the region of the intermediate space (9) than in the region radially inside the inner sealing web (4).

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9. Screw cap according to claim 8, characterized in that the wall thickness of the cap base in the region of the intermediate space (9) is 5 to 15%, preferably approximately 10%, smaller than the wall thickness of the cap base in the region immediately radially inside the inner sealing web (4).